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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,167	11/21/2003	Hailan Guo	A01325	2354
	7590 03/05/2007 IAAS COMPANY		EXAMINER	
PATENT DEP	ARTMENT		MULCAHY, PETER D	
100 INDEPENDENCE MALL WEST PHILADELPHIA, PA 19106-2399		•	ART UNIT	PAPER NUMBER
	, 111 15100 2555		1713	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/05/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/719,167	GUO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Peter D. Mulcahy	1713	
The MAILING DATE of this communication ap	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tild I will apply and will expire SIX (6) MONTHS from the cause the application to become ARANDONI	N. mely filed n the mailing date of this communication.	
Status			
Responsive to communication(s) filed on 17 / 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr		
Disposition of Claims			
4) Claim(s) 1,3,5 and 10 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1,3,5 and 10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the	er. cepted or b) objected to by the		
Replacement drawing sheet(s) including the correct			
11) ☐ The oath or declaration is objected to by the E Priority under 35 U.S.C. § 119	xaminer. Note the attached Office	e Action or form PTO-152.	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicatority documents have been received (PCT Rule 17.2(a)).	ion No ed in this National Stage	
	•		
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D		
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1, 3, 5 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sonnabend US 4,384,096 or Gassenmeier et al. US 2001/0031714 each taken alone and in view of Eisenhart et al. US 5,451,641.
- 4. Sonnabend US 4,384,096 or Gassenmeier et al. US 2001/0031714 teach "controlled" or "(physico)chemical switch" which use polyelectrolyte polymeric blends, see Sonnabend at columns 6 lines 7+, and Gassenmeier et al. [0142].
- 5. These patents further suggest the polymer crosslinking as claimed, see Sonnabend at columns 7 lines 5+, and Gassenmeier et al. [0143].
- 6. The difference between the claimed invention and the cited art is that the art fails to provide an example of the multi stage polymerization.

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7. The Eisenhart et al. patent shows the use of multi-stage polymerization process for the preparation of polymer particles. This patent uses the claimed monomers and those used in Sonnabend and Gassenmeier et al.

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8. One of ordinary skill would find it prima facie obvious to use the multi-stage process of Eisenhart et al. for the preparation of the polymer particles of Sonnabend and Gassenmeier et al.

Double Patenting

9. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

10. Claims 1,3, and 10 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-8 of copending Application No. 10/619,061 and claims 1-10 of copending Application No. 10/348,375 in view of Eisenhart et al.

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11. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claimed triggered response composition claimed uses the same polyelectrolyte polymer blend as those in the copending claims. The crosslinked nature of the 2nd polymer is suggested in the claims in 10/619,061 by the incorporation of the crosslinking agents. The polyethylenically unsaturated monomer incorporated in the polymer blend of 10/348,375 suggests crosslinking. The Eisenhart et al. patent renders obvious the multi-stage polymerization process limitations.

Conclusion

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

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A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter D. Mulcahy whose telephone number is 571-272-1107. The examiner can normally be reached on Mon.-Fri. 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Peter D. Mulcahy Primary Examiner Art Unit 17/13

David Wu

Supervisory Patent Examiner

Art Unit 1713

2/28/07